**Geometry: Review of 1-1,1-2,1-3**

**Determine whether each statement is *always*, *sometimes*, or *never* true.**

1. Three collinear points determine one plane.
2. Two points *A* and *B* determine a line.
3. Four points are coplanar.
4. The intersection of two planes is a point.
5. A line intersects a plane at one point.

**Answer Yes or No. Are the following groups of points collinear?**

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| 1. M,X,S Use for 6-14. 2. S,R,N 3. M,Q   **Answer Yes or No. Are the following coplanar?**   1. S,X,R,N 2. Line MX and Line ST 3. W,T,N 4. Line QP and Point M   **Name the intersection using correct notation.**   1. Name the intersection of Plane NMS and Plan Plane QPR. 2. Name the intersection of Line TS and Plane A. | http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_8/images/pg8_008.jpg |

**Refer to the figure.**

|  |  |
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| 1. Name the plane that contains http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_8/images/pg8_001.jpgand http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_8/images/pg8_002.jpg. 2. Name the intersection of Line j and Line g. Use for 15-17 3. Name the intersection of Plane S and http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_8/images/pg8_001.jpg.   **Find the value of *x* and *YZ* if *Y* is between *X* and *Z*.**   1. *XY* = 4*x*, *YZ* = 3*x*, and *XZ* = 42 2. *XY* = 2*x* + 1, *YZ* = 6*x*, and *XZ* = 81 | http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_8/images/pg8_003.jpg |

**Use the number line to find each measure.**

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| 1. *LN* 2. *JL* 3. *KN* 4. *MN* | http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_20/images/pg20_001.jpg |

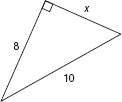
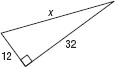
**Use the number line to find the coordinate of the midpoint of each segment.**

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| 1. http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_20/images/pg20_004.jpg Use for 5-9. 2. http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_20/images/pg20_005.jpg 3. http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_20/images/pg20_006.jpg 4. http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_20/images/pg20_007.jpg 5. If B is the midpoint of Segment FD, what would the coordinate of F be? | http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch1/gln_ma_gecrmch1_20/images/pg20_008.jpg |

1. If *R* is the midpoint of http://java.glencoe.com/servlets/mathml4.MathGifPtTest2?mml=%3Cmath%3E%3Cmover%3E%3Cmrow%3E%3Cmi%3ES%3C%2Fmi%3E%3Cmi%3ET%3C%2Fmi%3E%20%3C%2Fmrow%3E%3Cmrow%3E%3Cmo%3E%26bar%3B%3C%2Fmo%3E%3C%2Fmrow%3E%3C%2Fmover%3E%3C%2Fmath%3E, *SR*=3*x*+8,and *RT* =5*x*-6, find the measure of http://java.glencoe.com/servlets/mathml4.MathGifPtTest2?mml=%3Cmath%3E%3Cmover%3E%3Cmrow%3E%3Cmi%3ES%3C%2Fmi%3E%3Cmi%3ER%3C%2Fmi%3E%20%3C%2Fmrow%3E%3Cmrow%3E%3Cmo%3E%26bar%3B%3C%2Fmo%3E%3C%2Fmrow%3E%3C%2Fmover%3E%3C%2Fmath%3E.

**Solve for x using Pythagorean Theorem. Give your answer in simplest radical form, if necessary.**

http://glencoe.com/sites/common_assets/mathematics/geom_2010/worksheets/html/gln_ma_gecrmch8/gln_ma_gecrmch8_13/images/pg13_002.jpg11. 12.  


13. 14.  


Fully simplify each radical.

15. 16. 17. 18.